Table of Contents: Volume 30 (2002)

Numbers 1–3

Special Triple Issue on Signal Processing for Wireless Communication Systems
Guest Editors: H. Vincent Poor and Lang Tong

Guest Editorial: Signal Processing for Wireless Communication Systems ..... *H. Vincent Poor and Lang Tong* 5

Systems, Networking, and Implementation Issues

Tradeoffs of Source Coding, Channel Coding and Spreading in Frequency Selective Rayleigh Fading Channels ..... *Qinghua Zhao, Pamela Cosman and Laurence B. Milstein* 7

VLSI Implementation of the Multistage Detector for Next Generation Wideband CDMA Receivers..... *Gang Xu, Sridhar Rajagopal, Joseph R. Cavallaro and Behnaam Aazhang* 21

Modulation and Coding for Noncoherent Communications ..... *Michael L. McCloud and Mahesh K. Varanasi* 35

Multiple Antenna Enhancements for a High Rate CDMA Packet Data System..... *Howard Huang, Harish Viswanathan, Andrew Blanksby and Mohamed A. Haleem* 55

Deterministic Time-Varying Packet Fair Queueing for Integrated Services Networks ..... *Anastasios Stamoulis and Georgios B. Giannakis* 71

Channel Estimation and Equalization

Monte Carlo Bayesian Signal Processing for Wireless Communications ..... *Xiaodong Wang, Rong Chen and Jun S. Liu* 89

Bounds on SIMO and MIMO Channel Estimation and Equalization with Side Information ..... *Brian M. Sadler, Richard J. Kozick, Terrence Moore and Ananthram Swami* 107

On Blind Timing Acquisition and Channel Estimation for Wideband Multiuser DS-CDMA Systems..... *Zhouyue Pi and Urbashi Mitra* 127

Downlink Specific Linear Equalization for Frequency Selective CDMA Cellular Systems ..... *Thomas P. Krauss, William J. Hillery and Michael D. Zoltowski* 143

Multipath Delay Estimation for Frequency Hopping Systems..... *Prashanth Hande, Lang Tong and Ananthram Swami* 163

Multiuser Detection

Greedy Detection..... *Amina AlRustamani, Branimir Vojcic and Andrej Stefanov* 179

A New Class of Efficient Block-Iterative Interference Cancellation Techniques for Digital Communication Receivers..... *Albert M. Chan and Gregory W. Wornell* 197

Multiuser Detection for Out-of-Cell Cochannel Interference Mitigation in the IS–95 Downlink ..... *D. Richard Brown III, H. Vincent Poor, Sergio Verdú and C. Richard Johnson, Jr.* 217

COD: Diversity-Adaptive Subspace Processing for Multipath Separation and Signal Recovery..... *Xinying Zhang and S.-Y. Kung* 235

Multistage Nonlinear Blind Interference Cancellation for DS-CDMA Systems ..... *Dragan Samardzija, Narayan Mandayam and Ivan Seskar* 257

Adaptive Interference Suppression for the Downlink of a Direct Sequence CDMA System with Long Spreading Sequences ..... *Colin D. Frank, Eugene Visotsky and Upamanyu Madhow* 273

Constrained Adaptive Linear Multiuser Detection Schemes ..... *George V. Moustakides* 293